

Date: Mon, 3 Oct 94 04:30:24 PDT  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: List  
Subject: Ham-Equip Digest V94 #356  
To: Ham-Equip

Ham-Equip Digest                      Mon, 3 Oct 94                      Volume 94 : Issue 356

Today's Topics:

                    ACCESS  
                    analog AM reciever/build  
            Any Dualband HT Mods for GMRS Band?  
            Dual Band 2m-70cm Amplifiers  
                    DUAL BAND AMP  
            Fun with oscilloscopes  
            Hammarlund boatanchors  
    KAM Problem with writing to EEPROM - Any Help?  
            Ken TH-22AT mods?  
    MFJ-1214PC Multimode controller for SALE  
            MOD For HTX-202 TX/RX Freq.  
                    Mods, Why (2 msgs)  
            Radio Shack HTX-202: Good Buy  
            RF attenuator on old Ten-Tec ARGOSY?  
                    Sidebands on 2m  
    Solutions to TM-732 Intermod? (4 msgs)  
            TM-241a th2 K2  
            Viking Ranger Xmtr  
            Yaesu FT-727R Evaluation  
                    Yaeasu 757

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 03 Oct 94 06:28:15  
From: doug.mcclure@mms.raleigh.nc.us  
Subject: ACCESS

Can i pay 12.50 for 3 months? I am not sure I want to spend 25.00 on this board yet.  
/s

-----  
Date: Sun, 2 Oct 1994 19:42:22 GMT  
From: jakeb@efn.org (Jake Bottero)  
Subject: analog AM reciever/build

I would like to build an analog AM reciever (with possib. a digital freq readout.) Any suggestions?

Jake, jakeb@efn.org

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Date: Sat, 1 Oct 1994 09:03:00 GMT  
From: clint.bradford@ectech.com (Clint Bradford)  
Subject: Any Dualband HT Mods for GMRS Band?

M>Path: holonet!colossus.holonet.net!agate!howland.reston.ans.net!usc!nic-nac.C  
>From: mbrenner@csulb.edu (Martin Brenner)  
>Newsgroups: rec.radio.amateur.equipment  
>Subject: Re: Any Dualband HT Mods for GMRS Band?  
>Date: 28 Sep 1994 05:07:08 GMT  
>Organization: Cal State Long Beach  
>Lines: 43  
>Message-ID: <36atls\$ejr@garuda.csulb.edu>  
>References: <369lmr\$oe1@pt9201.ped.pto.ford.com>  
>NNTP-Posting-Host: tern.csulb.edu  
>X-Newsreader: TIN [version 1.2 PL2]

>and GMARS radios are cheeper than a  
>decent HAM HT. Personally if I were doing any work in GMARS I would get  
>an inexpensive GMARS unit. (You can monitor GMARS with a HAM no problem  
>most units have good enough sencitivity- antenna is no problem for  
>reception).

Are you talking about the GMRS Radio Service? And are you stating that my Icom U-16 cost less than, say, a Yaseu FT-530?

Buying an inexpensive GMRS unit (like the Uniden GMR100 or the Radio Shack unit) is a worthless purchase - IF you ever intend to access repeaters that offer public assistance. You need CTCSS and at least a watt to hit our system in SoCalifirnia - the Repeater User's Group - on 462.675 with a CTCSS tone.

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\* QMPro 1.52 \* Dogs come when you call. Cats have answering machines.

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Date: 3 Oct 1994 01:33:42 GMT  
From: dhnishik@wheel.ucdavis.edu (David Nishikawa)  
Subject: Dual Band 2m-70cm Amplifiers

Anthony R. Gold (tgold@microvst.demon.co.uk) wrote:  
: I am considering getting a dual band amplifier to raise my HT from 5 watts  
: to somewhere around ten time that. Are there any that are both reliable  
: and also clean from spurii (sic?).

: Here in the UK I can only find the Daiwa range but I could import an  
: RF Concepts or something else from ther States if I am assured that  
: this is the best route.

: No, I don't want to buy an extra 50 watt mobile rig, but thanks in advance  
: for that suggestion!

: --

: Tony, G3SKR & AA2PM

All I can say is that I'm a satisfied user of the rfc 2/70g. Only thing  
is 5 in gets 30 and 20 out for 2 and 440 respectivley.

--

Dave Nishikawa KC6YFG  
dhnishik@wheel.ucdavis.edu

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Date: Sun, 02 Oct 94 10:49:56  
From: kn4aq.gary@mms.raleigh.nc.us  
Subject: DUAL BAND AMP

Ne> I am considering getting a dual band amplifier to raise my HT from 5  
Ne> watts to somewhere around ten time that. Are there any that are both  
Ne> reliable and also clean from spurii (sic?).

Ne> Here in the UK I can only find the Daiwa range but I could import#! rnews  
1295

Newsgroups: rec.radio.amateur.equipment  
Path: mms!kn4aq.gary  
From: kn4aq.gary@mms.raleigh.nc.us  
Subject: RE: DUAL BAND AMP  
Message-ID: <9410021049.0F7U800@mms.raleigh.nc.us>

Distribution: world  
Date: Sun, 02 Oct 94 10:49:56

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Ne> watts to somewhere around ten time that. Are there any that are both  
Ne> reliable and also clean from spurii (sic?).

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Subject: RE: DUAL BAND AMP  
Message-ID: <9410021049.0F7U800@mms.raleigh.nc.us>  
Distribution: world  
Date: Sun, 02 Oct 94 10:49:56

Ne> I am considering getting a dual band a

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Date: Sun, 2 Oct 1994 17:26:44 GMT  
From: mcdonald@aries.scs.uiuc.edu (Doug McDonald)  
Subject: Fun with oscilloscopes

In article <1994Sep26.215009.16046@news.csuohio.edu> mike@shien.ist.csuohio.edu  
(mike mayer) writes:

>I could not tell if you connected each channel to your scope,  
>i.e., left channel to vertical, right channel to horizontal.  
>This would give you a cool display of the phase difference  
>between the two channels.

Also useful. It's absolutely AMAZING how often ... perhaps once  
every other month ... I do this while listening to the radio and  
discover my favorite station transmittin in MONO!!! It's always  
fun to call them and tell ... they NEVER notice, and it's better when  
you say that you see that embarassing straight line on the scope. Do  
radio stations ever actually monitor their own signals? Are the people doing  
it incapable of telling by listening (I sure can tell).

Doug McDonald

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Date: Mon, 3 Oct 1994 08:39:19 GMT  
From: vancleef@netcom.com (Henry van Cleef)  
Subject: Hammarlund boatanchors

I keep hearing about Hammarlund receivers for sale for "make offer" prices, and don't know what the details of various models are. I tried e-mailing to the boatanchor mailing list (which I have to ftp to get) but no dice. Evidently my mail won't distribute to the list.

Can anyone give me something of a rundown on some of these boxes (I assume they are all boatanchors).

HQ-100, HQ-129, HQ-150, HQ-180.

Thanks in advance.

--

=====  
Hank van Cleef                    The Union Institute   History of Science  
E-mail vancleef@netcom.com or vancleef@tmn.com  
=====

-----  
Date: 3 Oct 1994 01:30:52 GMT  
From: dhnishik@wheel.ucdavis.edu (David Nishikawa)  
Subject: KAM Problem with writing to EEPROM - Any Help?

Jeff Hilliard (jhillird@ix.netcom.com) wrote:

: I have a Kantronics KAM. Just upgraded to version 4 with a new  
: Eprom. When I fire it up I get a message "Can't write to EEPROM"  
: or something similar. I've tried tech support hotline and so far  
: have not been able to even get an answer. Any ideas?

: Jeff Hilliard WA6IOK    jhillird@ix.netcom.com

Hi Jeff, have you tried the Kantronics bbs at 918 842-4678. I think that's where I got some kpc-3 questions answered.

--

Dave Nishikawa KC6YFG  
dhnishik@wheel.ucdavis.edu  
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Date: 2 Oct 1994 09:54:25 GMT  
From: dbarton@emoryu1.cc.emory.edu ( )  
Subject: Ken TH-22AT mods?

I just purchased a Kenwood TH-22AT and am wondering if there are any known mods for it. I checked several sites, and found none, but the salesman alluded to some that he could not discuss... ;-)

Thanks in advance...

-----  
Date: 1 Oct 94 22:57:25 +0800  
From: asirene@v9001.ntu.ac.sg  
Subject: MFJ-1214PC Multimode controller for SALE

I have an MFP-1214PC for sale. This receives FAX, RTTY, CW. Asking about \$80-90 for it. Hardly used.  
Multimode computer interface, does WeFAX too. Software does 16 gray levels, full-color capability (4096 colors).  
Zoom function, RTTY-sync. CW decoder has automatic speed tracking, on screen tuning and easy sending.  
Please e-mail me if interested.

73,  
Daniel

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Date: Sun, 02 Oct 94 17:40:07 GMT  
From: smp@agape.sol.net (Steven M. Palm)  
Subject: MOD For HTX-202 TX/RX Freq.

In article <36hhsf\$k4u@lia.bga.com> maultsby@bga.com writes:  
>  
>Here's the not-so-famous HTX-202 mod to receive out of band:  
>  
>You need:  
>- HTX-202  
>- Pro-xxx scanner (fill in your favorite number there)  
>- Duct tape  
>  
>You figure it out. :)

ABSOLUTELY WONDERFUL! :) And they said it couldn't be done.... ::))

>But seriously, everyone in the world has been wishing there was a mod for  
>that radio, but there just isn't one. Never has been, never will be. It's

>just will not go out of band, and if anyone ever tells you it can,  
>\*please\* don't try any mod unless you're willing to sacrifice your radio.

You know: If someone did find a mod somehow, the first person to do it would then complain about how it increased the intermod problems. :) But I guess it just doesn't sink in with some folks that the RS design is a GOOD thing for a 2-meter only rig.

-----  
Date: 2 Oct 1994 12:54:59 GMT  
From: jkepler@pinn.net (apteryx)  
Subject: Mods, Why

--  
=:\Pinnacle Online - Open and dynamic Internet services:=  
=:|o|. | | | ----- :=  
=:|\_/||\ ||\ | |\.| \_\_ | Voice: 804/498.3889 email: info@pinn.net:=  
=:| || \|| \|| o | \|| \\_ .| Data: 804/498.9762 login: guest or new :=

-----  
Date: 2 Oct 1994 13:02:48 GMT  
From: jkepler@pinn.net (apteryx)  
Subject: Mods, Why

--  
=:\Pinnacle Online - Open and dynamic Internet services:=  
=:|o|. | | | ----- :=  
=:|\_/||\ ||\ | |\.| \_\_ | Voice: 804/498.3889 email: info@pinn.net:=  
=:| || \|| \|| o | \|| \\_ .| Data: 804/498.9762 login: guest or new :=

-----  
Date: Sun, 02 Oct 94 17:37:40 GMT  
From: smp@agape.sol.net (Steven M. Palm)  
Subject: Radio Shack HTX-202: Good Buy

In article <36kb8p\$gno@glock.ramp.com> bradf@glock.ramp.com writes:

>

>Steven M. Palm (smp@agape.sol.net) wrote:

>: I love my little HTX-202, but it really has me irritated right now.

>

>: I picked up a BP-8 8v high capacity battery and a BC-35 Drop-In

>: Quick Charger for the unit at a swapfest. But, guess what? The

>: BP-8 hates the HTX-202, or the other way around.

>

>: I took it back to Radio Shack, and ALL the units in the store have

>: the same problem: If you are powered from the BP-8 and you transmit,  
>: (not all the time) but all too frequently it sends the unit into the  
>: Er2: PLL Unlock error. Turning the unit on and off again clears the  
>: error, but it's a real PAIN!!!

>

>Hmmm . I've been using an IC-CM8 pack on my 202 for about 2 years now,  
>but never had this problem. I did have to open up the battery pack and  
>remove the ball detent, as the RS packs just have a dentent on the  
>radio side.

It wasn't a real BP-8 pack, but rather an ICE pack. But after much  
more playing around, and finding a REAL BP-8 pack, we found the real  
problem.

The ICE pack was allowing RF back into the radio somehow. If you held  
the unit well away from all surfaces it would work fine. If it was  
close enough to your body so that you acted as a ground plane, or put  
it on a metal surface, it would ALWAYS error out. If you hooked it up  
to an antenna that did not need a ground plane, or an external antenna,  
it would always work fine.

Moral of the story? Test before you buy. I'd recommend the rubber  
duck that comes with the unit, holding the base of the unit up against  
your chest perpendicular to the radio such that you become the ground  
plane. If it works fine that way, chances are you are in the clear.

>

>--

>== Brad Fisher == (PPSEL)	I'm just	Selah Software, Inc.
>internet: bradf@ramp.com	a	Tech Support
> packet: N7XSS@KC7Y.AZ.USA.NA	wanna be	Mesa, AZ
> http://www.ramp.com/~bradf/	UNIX guru!	602/464-0328
>		

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Date: Mon, 3 Oct 1994 02:07:37 GMT  
From: dgf@netcom.com (David Feldman)  
Subject: RF attenuator on old Ten-Tec ARGOSY?

My old (new to me) steam-powered ARGOSY (not Argosy II) has no RF gain  
control or RF attenuator on it's front end, and is getting crunched on  
40M (I have 2 elements on 40 at about 60' and it seems to be getting  
confused by local broadcast stations).

Anyway, I heard somewhere that there were "mods" for this situation.



Before I hack in a switchable RF attenuator, could someone direct me to clues as to what to do here?

73 Dave WB0GAZ dgf@netcom.com

-----  
Date: 1 Oct 94 19:23:52 +0800  
From: asirene@v9001.ntu.ac.sg  
Subject: Sidebands on 2m

Hi,

I have just acquired a IC-22A 2M transceiver and noticed that there is a difference in the sideband used for receiving 144-146 and 146-148. Why is this done, and is it critical? Thanks.

Does anyone know what the difference between the 144-146 version and the 146-148 version is? Other than the difference in the sideband used? Thanks.

73,  
Daniel

-----  
Date: 2 Oct 1994 09:52:30 -0700  
From: jmroden@crl.com (James M. Roden)  
Subject: Solutions to TM-732 Intermod?

Has anyone sucessfully reduced the amount of intermod that the Kenwood TM-732 exhibits? The UHF side is practically unusable in this city. I have detuned the rf section for limited help. Has anyone removed the first rf amp?

Thanks in advance.

de: Mike Roden / N5FL / jmroden@crl.com / San Antonio  
--

de: Mike Roden / N5FL / jmroden@crl.com / San Antonio

-----  
Date: Sun, 2 Oct 1994 21:08:24 GMT  
From: ghiscox@netcom.com (George L. Hiscox)  
Subject: Solutions to TM-732 Intermod?

James M. Roden (jmroden@crl.com) wrote:

: Has anyone sucessfully reduced the amount of intermod that the Kenwood  
: TM-732 exhibits? The UHF side is practically unusable in this city. I  
: have detuned the rf section for limited help. Has anyone removed the  
: first rf amp?

: Thanks in advance.

: de: Mike Roden / N5FL / jmroden@crl.com / San Antonio  
: --

: de: Mike Roden / N5FL / jmroden@crl.com / San Antonio

The TM-732 is designed to be a MOBILE radio. The frontend is pretty much wide open. Therefore, when you hook it up to a gain antenna the front end folds up like a house of cards.

A friend of mine has had the same problem you are with his TM-732 and corrected it by using an external antenna tuner designed for two meters. He tells me that the UHF side of the radio doesn't have the problem that the VHF side does.

I have personally tried out the next generation TM-733 and it has the same problem. I have just used one on a base station gain antenna though. I understand that they work okay in a mobile with a lower gain antenna. Of course the guy who told me that was trying to sell me the radio.

Good luck, Mr. Phelps!

George L. Hiscox		THE PRICE OF LIBERTY	
ghiscox@netcom.com		IS ETERNAL VIGILANCE	
WA6RIK @ WB6YMH.#soca.ca.usa.na		^^^^^^^^^^^^^^^^^^^^	

-----  
Date: 3 Oct 1994 02:03:01 GMT  
From: prvalko@vela.acs.oakland.edu (prvalko)  
Subject: Solutions to TM-732 Intermod?

I bought my 723a the first day they were available in the US two years ago at Dayton. The UHF side was virtually unusuable in Detroit. I sent the rig back into Kenwood to see what they could do with it under warranty. Whatever they did (and I \*think\* it was to de-tune the UHF front end) worked fine.

73 =paul= wb8zjl

-----  
Date: 3 Oct 1994 03:38:43 GMT  
From: ftowers@larry.infi.net (Fred Towers)  
Subject: Solutions to TM-732 Intermod?

In article <36moge\$3d0@crl4.crl.com>, jmroden@crl.com (James M. Roden) says:  
>

>Has anyone sucessfully reduced the amount of intermod that the Kenwood  
>TM-732 exhibits? The UHF side is practically unusable in this city. I  
>have detuned the rf section for limited help. Has anyone removed the  
>first rf amp?

>  
>Thanks in advance.

>  
>de: Mike Roden / N5FL / jmroden@crl.com / San Antonio  
>--

>  
> de: Mike Roden / N5FL / jmroden@crl.com / San Antonio  
I have a TM-731A, a TM-431A, and a TK-805. The latter is the Kenwood commercial version of the ham TM-431A. The UHF receiver in each of these radios is nearly identical. And yes, they all fold in downtown anywhere. The only solution I have found is to ALWAYS use receive CTCSS. Of course, you have to talk everyone you want to QSO with into always transmitting the same CTCSS tone. Even with CTCSS, it will still get hits from intermod which happens to have the CTCSS tone you are using.

Please let me know if a real fix is found!

Fred Towers  
WB4KXS

-----  
Date: 2 Oct 1994 21:03:23 GMT  
From: grsnow@wpi.edu (Gregory Ryan Snow)  
Subject: TM-241a th2 K2

I am looking for a modification for a friend. The official model number of the radio is:

Kenwood TH-241a th2 K2

He says the mod for the TH241a that he has to open full TX doesn't seem to work on his rig... So the only mod he currently has opens the TX for MARS/CAP only.

If you have any mods for this radio please post them.

Thanks,  
Gregory R. Snow (grsnow@wpi.edu)  
KA1WIG

-----  
Date: 2 Oct 1994 22:06:38 -0400  
From: jimh@w8hd.org (Jim Hebert)  
Subject: Viking Ranger Xmtr

I thought I would add that the Johnson Viking Ranger was sold both as a kit and an assembled and tested product. If the one you are working on was a kit built model, you may see a few modifications, like the extra 1/4 in. phone jack you describe. I don't recall my Ranger having that.

If the final is well neutralized, you should see a peak in grid current occur with a dip in plate current.

The outstanding feature of the Ranger was its attention to sheilding. It was constructed with prevention of TVI in mind.

It was also an expensive radio; I never had one until the early 1970's, at which time they were selling for less than \$100. That was quite a bit less than their initial price in the mid-to-late 1950s.

Best regards,

de K8SS

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jimh@w8hd.org                    "In the nuclear winter, all sunsets <-- who  
Jim Hebert, K8SS                will be beautiful"                    said that?  
=====

-----  
Date: 3 Oct 94 03:49:54 GMT  
From: jdow@BIX.com (jdow on BIX)  
Subject: Yaesu FT-727R Evaluation

ccdave@amber.indstate.edu (David Pifer) writes:

>Does any one have or has had a Yaesu FT-727R HT and what is you opinion  
>about it? This is the Model A and it does not have the CTCSS module.

>I have the oportunity to buy one used at a good price for a dual  
>band unit but I want to know what the experiences of others with this unit  
>is. You can either EMAIL me direct, or post to the list. Thanks.

> -----  
> David L. Pifer, N9YNF VOX: (812) 237-2923  
> Systems Programmer, Graphics Specialist FAX: (812) 237-4361  
> Computing Services & Facilities OFFICE: Rankin Hall R044  
> Indiana State University PMAIL: AMBER/CCDAVE  
> Terre Haute, IN 47809 Bitnet/INET: ccdave@amber.indstate.edu  
> -----

It is marginally better than dung, IMHO. It suffers from incredible intermod  
problems. The tuning adjustments inside are not staked so from time to time  
you hear cores from the 450 resonators rattling around inside. The antenna  
connector has a habit of coming loose unless you locktite it. If you do locktite  
it you cannot get in to replace the surface mounted lights for the LCD panel.  
The microphone jack "ground" lead is not connected to anything. All in all it  
is a marginally useful incredibly sensitive piece of <wanna buy mine?>

{^\_^} Joanne Dow, Editor Amiga Exchange, BIX  
jdow@bix.com

Well, you asked....

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Date: Sun, 2 Oct 1994 14:16:33 GMT  
From: tja@netcom.com (T.J. Alessi)  
Subject: Yeasu 757

I have a Yeasu FT-757 GX II with AT-757 tuner and FP-757HD Power  
supply for sale. It is in Excellent Condx.

I am trying to figure out what the package is worth... Anyone  
have a good Idea what I should ask for it?

Tom

--

-----[ T.J. Alessi - WB1L ]-----  
T.J. Alessi & Associates \* PO Box 16781 \* Stamford, Connecticut 06905-8781  
Internet: TJA@Netcom.Com \* MCI:Alessi@MCIMail.Com \* Phone: +1(203)969-1880

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End of Ham-Equip Digest V94 #356  
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